AMENDMENTS TO THE CLAIMS

This listing of the claims will replace all prior versions including the claims in the application.

Listing of the Claims:

CLAIMS:

1. (Original) A compound of formula (I)

$$(R)_{0} \xrightarrow{\begin{array}{c} C = C \\ H \end{array}} \xrightarrow{\begin{array}{c} X_{1}R_{1} \\ O \end{array}}$$

in which:

Y is a group of formula (II)

$$X_2R_2$$
 (II)

or of formula (III)

$$X_{2}R_{2}$$

$$X_{3}R_{3}$$
(III),

R is

H, C₁-C₆-alkyl, C₂-C₆-alkenyl, C₂-C₆-alkynyl or C₅-C₁₄-aryl, halogen, -CN, -OH, -O-C₁-C₆-alkyl, -O-C₂-C₆-alkenyl, -O-C₅-C₁₄-aryl, -O-C₂-C₆-alkynyl, -NH₂, -NH-C₂-C₆-alkyl, -NH-C₂-C₆-alkenyl, - $NH-C_2-C_6-alkynyl$, $-NH-C_5-C_{14}-aryl$, $-N(-C_1-C_6-alkyl)_2$, $-N(-C_2-C_6-alkenyl)_2$, $-N(-C_2-C_6-alkynyl)_2$, $-N(-C_3-C_6-alkynyl)_2$ $N(C_5-C_{14}-aryl)_2, -NH[-C(=O)-(C_1-C_6-alkyl)], -NH[-C(=O)-(C_5-C_{14}-aryl)], -NH-O-R_1, -SH, -S-C_1-R_1, -SH, -S-C_1-R_2, -S C_6$ -alkyl, -S- C_2 - C_6 -alkenyl, -S- C_1 - C_6 -alkynyl or -O- C_5 - C_{14} -aryl, wherein the abovementioned substituents are unsubstituted or substituted, one or more times, by a substituent independently selected from C1-C6-alkyl, C2-C6-alkenyl, C2-C6-alkynyl, C5-C14-aryl, where alkyl, alkenyl, alkynyl

and aryl may be independently unsubstituted or substituted, once or twice, by a substituent independently selected from -OH, =O, $-O-C_1-C_6$ -alkyl, $-O-C_2-C_6$ -alkenyl, $-O-C_5-C_{14}$ -aryl, $-NH-C_1-C_6$ -alkyl, $-NH-C_2-C_6$ -alkenyl, $-NH_2$, and halogen, wherein alkyl, alkenyl, alkynyl and aryl can be further substituted by a -CN, amide or oxime,

R₁, R₂, R₃ and R₄ are, independently of each other,

H, C_1 - C_6 -alkyl, C_2 - C_6 -alkenyl, C_2 - C_6 -alkynyl or C_5 - C_{14} -aryl,

in which alkyl, alkenyl, alkynyl and aryl are unsubstituted or substituted, once or twice, by a substituent independently selected from -OH, $-O-C_1-C_6$ -alkyl, $-O-C_2-C_6$ -alkenyl, $-O-C_5-C_{14}$ -aryl, $-C_5-C_{14}$ -aryl, $-NH-C_1-C_6$ -alkyl, $-NH-C_2-C_6$ -alkenyl, $-NH_2$ and halogen, in which alkyl, alkenyl, alkynyl and aryl are independently unsubstituted or substituted, once or twice, by a substituent independently selected from -OH, =O, $-O-C_1-C_6$ -alkyl, $-O-C_2-C_6$ -alkenyl, $-O-C_5-C_{14}$ -aryl, $-C_5-C_{14}$ -aryl, $-NH-C_1-C_6$ -alkyl, $-NH-C_2-C_6$ -alkenyl, $-NH_2$ and halogen, in which said alkyl, alkenyl, alkynyl and aryl can be further independently substituted by a -CN, amide or oxime,

 X_1 , X_2 and X_3 are, independently of each other, selected from $-CH_2-$, -CHR-, -NH-, $-N(C_1-C_6-alkyl)-$, $-N(C_2-C_6-alkenyl)-$, $-N(C_2-C_6-alkynyl)-$, $-N[-C(=O)-(C_1-C_6-alkyl)]-$, $-N[-C(=O)-(C_5-C_{14}-aryl)]-$, $-N(C_5-C_{14}-aryl)-$, -N(O-R)-, -O- and -S-.

n and m are, independently of each other,

2, 3, 4 or 5, and

o is

0, 1, 2 or 3,

excluding, however, compounds of formula (I) in which

o is 0,

n is 2.

m is 2 or 3,

X₂ and X₃ are O, and

 R_2 and R_3 are C_2H_5 .

and all double bonds possess the trans-configuration,

and/or stereoisomeric forms of compounds of formula (I) and/or a mixture of these forms in any ratio, and/or physiologically tolerated salts of compounds of formula (I).

- 2. (Currently Amended) A compound of formula (I) as claimed in claim 1, wherein at least one polyene group contains has at least one cis double bond.
- 3. (Original) A compound of formula (I) as claimed in claim 1, wherein

R is H,

R₁ is H or C₁-C₆-alkyl,

R₂ is H or C₁-C₆-alkyl,

 R_3 is H or C_1 - C_6 -alkyl,

R₄ is C₁-C₆-alkyl, and

 X_1 and X_2 are -O-,

and the physiologically tolerated salts thereof.

4. (Original) A compound of formula (I) as claimed in claim I, which is a compound of formula (IV)

$$\begin{array}{c|c} & & & & \\ & &$$

wherein m is 3 or 4, and R_1 and R_2 are as defined in claim 1 and the physiologically tolerated salts thereof.

5. (Original) A compound of formula (I) as claimed in claim 1, which is a compound of formula (V)

wherein R1 and R2 are as defined in claim 1.

6. (Original) A compound of formula (V) as claimed in claim 5, wherein each of R₁ and R₂ is H.

7. (Original) A compound of formula (I) as claimed in claim 1, which is a compound of formula (VI)

wherein R1 and R2 are as defined in claim 1.

- 8. (Original) A compound of formula (VI) as claimed in claim 7, wherein R₁ and R₂ are each H.
- 9. (Original) A compound of formula (I) as claimed in claim1, which is a compound of formula (VII)

wherein R1 and R2 are as defined in claim 1.

- 10. (Original) A compound of formula (VII) as claimed in claim 9, wherein R₁ and R₂ are each H.
- 11. (Original) A compound of formula (I) as claimed in claim 1, which is a compound of formula (VIII)

12. (Original) A compound of formula (VIII) as claimed in claim 11, which is a compound of formula (IX)

- 13. (Original) A compound of formula (IX) as claimed in claim 12, wherein R₁ is H.
- 14. (Original) A compound of the formula (VIII) as claimed in claim 11, which is a compound of formula (X)

- 15. (Original) A compound of formula (X) as claimed in claim 14, wherein R₁ is H.
- 16. (Currently Amended) A process for preparing a compound of formula (I) as claimed in claim 1, which comprises
 - culturing the microorganism Actinomycetales sp. DSM 14865, or one of its variants and/or mutants, in an aqueous nutrient medium until one or more of the compounds serpentemycin A, B, C and D accrues in the culture broth, and
 - 2. isolating and purifying said serpentemycin A, B, C and/or D.
- 17. (Cancelled)
- 18. (Currently Amended) A process as claimed in claim16, which comprises fermenting the microorganism *Actinomycetales* sp. DSM 14865, or one of its variants and/or mutants, in a culture medium which contains a carbon and nitrogen source and also the customary inorganic salts and

trace elements, isolating serpentemycins A, B, C and/or D and, optionally, converting said serpentemycins A, B, C and/or D into a pharmacologically tolerated salt.

- 19. (Original) A process as claimed in claim 16, wherein the fermentation is carried out under aerobic conditions at a temperature of between 20 and 35°C and at a pH between 4 and 10.
- 20. (Previously Amended) A method for the treatment of an infectious bacterial disease comprising administering to a patient in need thereof an antibacterially effective amount of a compound of claim 1.
- 21. (Previously Amended) A pharmaceutical composition for the treatment of infectious bacterial diseases comprising at least one compound as claimed in claim 1 and one or more physiologically suitable auxiliary substances.
- 22. (Previously Amended) A process for producing a pharmaceutical composition as claimed in claim 21, which comprises combining at least one compound as claimed in claim 1, with one or more physiologically suitable auxiliary substances, into a suitable form for administration.
- 23. (Previously Amended) The isolated microorganism Actinomycetales sp., DSM 14865.